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Safety Evaluation Report
June 28, 2007

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Pilgrim Nuclear Power Station
ML 071410455
Docket No. 50-293

License Renewal
Safety Evaluation Report
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Pilgrim Nuclear Power Station
ML070600798
Docket No. 50-293

DEC 11 2007

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 29, 2006

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Pilgrim Nuclear Power Station

SUBJECT: SUMMARY OF CONFERENCE CALL ON DECEMBER 12, 2006, WITH ENTERGY NUCLEAR OPERATIONS, INC., REGARDING THE PILGRIM LICENSE RENEWAL APPLICATION (TAC NO. MC9669)

The U.S. Nuclear Regulatory Commission (NRC) staff conducted a conference call with Entergy Nuclear Operations, Inc., (Entergy or the applicant) regarding the Pilgrim license renewal application (LRA) to discuss information sent to the NRC in response to requests for additional information (RAI) and to address other license renewal issues. The conference call was conducted on Tuesday, December 12, 2006, between 12:30 p.m. and 1:30 p.m., at 11555 Rockville Pike, Rockville, MD 20852. The list of participants is shown in the enclosure. The following is a summary of the conference call:

The NRC Pilgrim Project Manager provided an introduction and began discussing the subjects to be covered in the conference: NRC staff considers the response to Pilgrim RAI 2.3.3.9-8 incomplete; NRC staff feels RAI 2.4.3-1 trash racks and traveling screens require aging management programs; request that Entergy justify the RAI 2.4.3-1 jib crane being considered out of scope of license renewal; concurrence that RAI 2.4.5-1 transmission towers are included in LRA Table 2.4-5; NRC staff requires the applicant to make a commitment to boiling water reactor vessel and internals program (BWRVIP)-94 and BWRVIP-76; discuss the core shroud tie rod upper bracket material and repair; discuss the validity of using one time inspections to assess reduction of fracture toughness in cast austenitic stainless steel (CASS) components; discuss RAI B.1.3-2 exception to NUREG 1800 AMP XI.M6.

Discussion of RAI 2.3.3.9-8, resulted in the Entergy action to assess whether fire suppression systems for several transformers are within scope. Discussions regarding the trash racks, traveling screens and the jib crane resulted in an Entergy explanation as to why these components are considered out of scope. The discussion of the transmission towers resulted in the confirmation that the towers are represented in LRA table 2.4-5. Entergy stated that the commitment to BWRVIP-94 is reflected in Entergy procedure ENN-DC-135 and that a commitment to BWRVIP-76 will be addressed in a pending LRA amendment. Entergy explained that the core shroud tie rod upper bracket will be replaced in the April 2007, Pilgrim re-fueling outage.

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Entergy took an action to research LRA inconsistencies regarding the inspection for reduction of fracture toughness of CASS piping and pump casings. Entergy stated that exception 1 to GALL AMP XI.M6 need not be deleted from the LRA as a result of discussions with the NRC staff during this conference call.

The applicant had an opportunity to comment on the meeting summary.

Perry Buckberg, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
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cc w/encl: See next page

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LIST OF PARTICIPANTS FOR TELEPHONE CONFERENCE CALL TO DISCUSS THE PILGRIM NUCLEAR POWER STATION LICENSE RENEWAL APPLICATION

December 12, 2006

PARTICIPANTS	AFFILIATION
Perry Buckberg	U.S. Nuclear Regulatory Commission (NRC)
Raj Auluck	NRC
Ganesh Cheruvenki	NRC
Naeem Iqbal	NRC
James Davis	NRC
Susan Lane	NRC
Peter Wen	NRC
Phil Qualls	NRC
James Medoff	NRC
Doug Ellis	Entergy Nuclear Operations, Inc. (Entergy)
Fred Mogolesko	Entergy
Alan Cox	Entergy
Ray Pace	Entergy
Abdolreza Ahrabli	Entergy
David Lach	Entergy
Steve Burke	Entergy

ENCLOSURE

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

January 8, 2007

MEMORANDUM TO: Rani L. Franovich, Branch Chief
Environmental Branch B
Division of License Renewal
Office of Nuclear Reactor Regulation

FROM: Alicia Williamson
Environmental Branch B
Division of License Renewal
Office of Nuclear Reactor Regulation

SUBJECT: FORTHCOMING MEETING TO DISCUSS THE DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT FOR THE LICENSE RENEWAL OF PILGRIM NUCLEAR POWER STATION

DATE AND TIME: Wednesday, January 24, 2007, (Two identical sessions)
First session: 1:30 p.m. - 4:30 p.m. (as necessary)
Second session: 7:00 p.m. - 10:00 p.m. (as necessary)

LOCATION: Radisson Plymouth
Harbor Ballroom
180 Water Street
Plymouth, Massachusetts 02360

CATEGORY 3:* This is a Category 3 Meeting. The public is invited to participate in this meeting by providing comments and asking questions throughout the meeting.

PURPOSE: To meet with the public to receive comments on the draft Supplemental Environmental Impact Statement (DSEIS) 29 to the Generic Environmental Impact Statement for License Renewal of Nuclear Plants (NUREG-1437) for Pilgrim Nuclear Power Station issued on December 8, 2006. The DSEIS is available on the NRC's Website at http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1437/supplement29/ and in the NRC's publicly available Agencywide Document Access and Management System (ADAMS). The ADAMS Accession Number is ML063260173. See the attached agenda and Federal Register Notice 71 FR 75280.

CONTACTS:

Alicia Williamson, NRR	Andrew Stuyvenberg, NRR
301-415-1878	301-415-4006
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* Commission's Policy Statement on "Enhancing Public Participation in NRC Meetings," 67 *Federal Register* 36920, May 28, 2002.

PURPOSE (Cont.): Both formal sessions will be preceded by an informal "open house" beginning one hour prior to each session for those who wish to attend. The open house will provide members of the public with an opportunity to talk informally one-on-one with NRC staff. Members of the public may register to present oral comments at this meeting by contacting Alicia Williamson, at (800) 368-5642, ext. 1878, or by email at ARW1@nrc.gov by January 17, 2007. Those who wish to make comments may also register at the meeting within 15 minutes of the start of each session. Individual oral comments may be limited by the time available, depending on the number of persons who register.

If special equipment or accommodations are needed to attend or present information at the meeting, the need should be brought to the attention of Ms. Williamson at 800-368-5642, ext. 1878 or via e-mail at arw1@nrc.gov, no later than January 10, 2007, to provide the NRC staff adequate notice to determine whether the request can be accommodated.

PARTICIPANTS:

NRC	EarthTech
C. Cameron	R. Hurley
R. Franovich	
A. Williamson	
R. Palla	

Members of the Public Who Register to Speak

Docket No.: 50-293

Enclosures:
1. Agenda
2. Federal Register Notice

cc w/enclos: See next page

AGENDA FOR PUBLIC MEETING TO DISCUSS THE DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT FOR THE LICENSE RENEWAL OF PILGRIM NUCLEAR POWER STATION

WEDNESDAY, JANUARY 24, 2007

Two Meeting Sessions - 1:30 p.m. to 4:30 p.m. and 7:00 p.m. to 10:00 p.m.*

I.	Welcome and Purpose of Meeting	10 minutes (C. Cameron)
II.	Overview of License Renewal Process	10 minutes (R. Franovich)
III.	Results of the Environmental Review	30 minutes (A. Williamson, R. Hurley)
IV.	How Comments can be Submitted	5 minutes (A. Williamson)
V.	Public Comments	As Required (C. Cameron)
VI.	Closing/Availability of Transcripts, etc.	5 minutes (C. Cameron)

*The NRC staff will host informal discussions one hour prior to each meeting session. No formal comments on the Draft Supplemental Environmental Impact Statement (DSEIS) will be accepted during the informal discussions. To be considered, comments must be provided either at the transcribed public meetings (see agenda, above) or in writing, as described in the attached Federal Register Notice.

Enclosure 1

Federal Register Notices: December 14, 2006 (Volume 71, Number 240)
Page 75280-75281

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Pilgrim Nuclear Power Station; Notice of Availability of The Draft Supplement 29 to the Generic Environmental Impact Statement for License Renewal of Nuclear Plants, and Public Meeting for the License Renewal of Pilgrim Nuclear Power Station Notice is hereby given that the U.S. Nuclear Regulatory Commission (NRC, Commission) has published a draft plant-specific supplement to the Generic Environmental Impact Statement for License Renewal of Nuclear Plants (GEIS), NUREG–1437, regarding the renewal of operating license DPR–35 for an additional 20 years of operation for the Pilgrim Nuclear Power Station (Pilgrim). Pilgrim is located on the western shore of Cape Cod in the Town of Plymouth, Plymouth County, Massachusetts. It is 38 miles southeast of Boston, Massachusetts, and 44 miles east of Providence, Rhode Island. Possible alternatives to the proposed action (license renewal) include no action and reasonable alternative energy sources.

The draft Supplement 29 to the GEIS is publicly available at the NRC Public Document Room (PDR), located at One White Flint North, 11555 Rockville Pike, Rockville, Maryland, 20852, or from the NRC's Agencywide Documents Access and Management System (ADAMS). The ADAMS Public Electronic Reading Room is accessible at http://adamswebsearch.nrc.gov/dologin.htm. The Accession Number for the draft Supplement 29 to the GEIS is ML063260173. Persons who do not have access to ADAMS, or who encounter problems in accessing the documents located in ADAMS, should contact the NRC's PDR reference staff by telephone at 1–800–397–4209, or 301–415–4737, or by e-mail at pdr@nrc.gov. In addition, the Plymouth Public Library, 132 South Street; Duxbury Free Library, 77 Alden Street; and the Kingston Public Library, 6 Green Street, has agreed to make the draft supplement to the GEIS available for public inspection.

Any interested party may submit comments on the draft supplement to the GEIS for consideration by the NRC staff. To be certain of consideration, comments on the draft supplement to the GEIS and the proposed action must be received by February 28, 2007.

Comments received after the due date will be considered if it is practical to do so, but the NRC staff is able to assure consideration only for comments received on or before this date. Written comments on the draft supplement to the GEIS should be sent to: Chief, Rules and Directives Branch, Division of Administrative Services, Office of Administration, Mail Stop T–6D59, U.S. Nuclear Regulatory Commission, Washington, DC 20555–0001. Comments may be hand-delivered to the NRC at 11545 Rockville Pike, Room T–6D59, Rockville, Maryland, between 7:30 a.m. and 4:15 p.m. on Federal workdays. Electronic comments may be submitted to the NRC by e-mail at PilgrimEIS@nrc.gov. All comments received by the Commission, including those made by Federal, State, local agencies, Native American Tribes, or other interested persons, will be made available electronically at the Commission's PDR in Rockville, Maryland, and through ADAMS.

The NRC staff will hold a public meeting to present an overview of the draft plant-specific supplement to the GEIS and to accept public comments on the document. The public meeting will be held on January 24, 2007, at the Radisson Plymouth Harbor Ballroom, 180 Water Street, Plymouth, Massachusetts 02360. There will be two sessions to accommodate interested parties. The first session will convene at 1:30 p.m. and will continue until 4:30 p.m., as necessary. The second session will convene at 7 p.m. with a repeat of the overview portions of the meeting and will continue until 10 p.m., as necessary. Both meetings will be transcribed and will include: (1) A presentation of the contents of the draft plant-specific supplement to the GEIS, and (2) the opportunity for interested government agencies, organizations, and individuals to provide comments on the draft report. Additionally,

the NRC staff will host informal discussions one hour prior to the start of each session at the same location. No comments on the draft supplement to the GEIS will be accepted during the informal discussions. To be considered, comments must be provided either at the transcribed public meeting or in writing. Persons may pre-register to attend or present oral comments at the meeting by contacting Ms. Alicia Williamson, the NRC Environmental Project Manager at 1–800–368–5642, extension 1878, or by e-mail at PilgrimEIS@nrc.gov, no later than January 17, 2007. Members of the public may also register to provide oral comments within 15 minutes of the start of each session. Individual, oral comments may be limited by the time available, depending on the number of persons who register. If special equipment or accommodations are needed to attend or present information at the public meeting, the need should be brought to Ms. Alicia Williamson attention no later than January 10, 2007, to provide the NRC staff adequate notice to determine whether the request can be accommodated.

For Further Information Contact: Ms. Alicia Williamson, Environmental Branch B, Division of License Renewal, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Mail Stop O–11F1, Washington, DC, 20555–0001. Ms. Alicia Williamson may be contacted at the aforementioned telephone number or e-mail address.

Dated at Rockville, Maryland, this 8th day of December, 2007.
For The Nuclear Regulatory Commission.
Robert Schaaf,
Acting Branch Chief, Environmental Branch
B, Division of License Renewal, Office of
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[FR Doc. E6–21272 Filed 12–13–06; 8:45 am]
BILLING CODE 7590–01–P

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NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

January 18, 2007

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Pilgrim Nuclear Power Station

SUBJECT: SUMMARY OF CONFERENCE CALL ON DECEMBER 18, 2006, WITH ENTERGY NUCLEAR OPERATIONS, INC., REGARDING THE PILGRIM NUCLEAR POWER STATION LICENSE RENEWAL APPLICATION (TAC NO. MC9669)

The U.S. Nuclear Regulatory Commission (NRC) staff conducted a conference call with Entergy Nuclear Operations, Inc., (Entergy or the applicant) regarding the Pilgrim Nuclear Power Station (Pilgrim) license renewal application (LRA) to identify and request drawings for systems identified in the LRA. The conference call was conducted on Monday December 18, 2006, between 2:00 p.m. and 3:00 p.m. at 11555 Rockville Pike, Rockville, MD 20852. The list of participants is shown in the enclosure. The following is a summary of the conference call.

The NRC Pilgrim Project Manager provided an introduction and requested that Entergy identify to what system several component types listed in LRA table 2.3.3.14-15 belong. Entergy verified that the component types were part of the station heating system and, when requested by the NRC, agreed to provide system drawings to the NRC.

The applicant had an opportunity to comment on the meeting summary.

Perry Buckberg, Project Manager
License Renewal Branch A
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Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
As stated

cc w/encl: See next page

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ENCLOSURE

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

February 2, 2007

Mr. Michael Kansler
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Entergy Nuclear Operations, Inc.
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SUBJECT: AUDIT AND REVIEW REPORT FOR PLANT AGING MANAGEMENT REVIEWS AND PROGRAMS FOR THE PILGRIM NUCLEAR POWER STATION LICENSE RENEWAL APPLICATION (TAC NO. MC9669)

Dear Mr. Kansler:

By letter dated January 25, 2006, Entergy Nuclear Operations, Inc., (applicant) submitted an application pursuant to 10 CFR Part 54, to renew the operating license for Pilgrim Nuclear Power Station, for review by the U.S. Nuclear Regulatory Commission (NRC). The NRC staff conducted an audit and review of the aging management reviews (AMRs) and associated aging management programs (AMPs) for which the applicant claimed consistency with the Generic Aging Lessons Learned Report. The purpose of the audit and review was to determine the AMRs and AMPs were in compliance with 10 CFR Part 54.

The report documenting the results of the audit and review is now publicly available. This report can be viewed through the Agency Wide Documents Access and Management System (ADAMS) using Accession Number ML063110278. The ADAMS Public Electronic Reading Room is accessible from the NRC's Web site at http://www.nrc.gov/reading-rm/adams.html. Persons who do not have access to ADAMS, or who encounter problems in accessing the documents located in ADAMS, should contact the NRC's Public Document Room Reference staff at 1-800-397-4209, or 301-415-4737, or via e-mail at pdr@nrc.gov. Enclosed is a compact disc copy of the report for your information. If you have any questions, please contact me at 301-415-1383 or via e-mail at phb1@nrc.gov.

Sincerely,

Perry Buckberg, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
As Stated

cc w/o encl: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

February 16, 2007

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Pilgrim Nuclear Power Station

SUBJECT: SUMMARY OF CONFERENCE CALL ON JANUARY 23, 2007, WITH ENTERGY NUCLEAR OPERATIONS, INC., REGARDING THE PILGRIM LICENSE RENEWAL APPLICATION (TAC NO. MC9669)

The U.S. Nuclear Regulatory Commission (NRC) staff conducted a conference call with Entergy Nuclear Operations, Inc., (Entergy or the applicant) regarding the Pilgrim license renewal application (LRA) to discuss ultrasonic testing (UT) of the drywell shell, water on the torus room floor and to request documentation for periodic testing of Fire Water System equipment (License Renewal Application Section B.1.13.2). The conference call was conducted on Tuesday, January 23, 2007, between 2:00 p.m. and 3:00 p.m. at 11555 Rockville Pike, Rockville, MD 20852. The list of participants is shown in the enclosure. The following is a summary of the conference call.

The NRC Pilgrim Project Manager provided an introduction and the meeting then began with the fire water system. The staff requested that the applicant provide approved guidance documents that include fire hydrant hose hydrostatic testing, gasket inspections, and fire hydrant flow test. Next, the staff requested that the applicant clarify recently submitted UT data. And finally, the staff and the applicant discussed additional UT data recordings and torus room water testing. The applicant agreed to identify the current license basis document that covers the described Fire Water System tests. The applicant described a plan to perform additional UT in areas previously tested, and provide documentation to the NRC. The applicant offered to provide a rationale on testing the functionality of drywell shell sand bed drains. In addition, the applicant offered to provide a plan to analyze and document water that accumulates on the torus room floor.

The applicant had an opportunity to comment on the meeting summary.

Perry Buckberg, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure: As stated

cc w/encl: See next page

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January 23, 2007

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ENCLOSURE 1

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 1, 2007

LICENSEE: Entergy Nuclear Operations, Inc

FACILITY: Pilgrim Nuclear Power Station

SUBJECT: SUMMARY OF PUBLIC MEETINGS ON THE DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT REGARDING THE PILGRIM NUCLEAR POWER STATION, LICENSE RENEWAL REVIEW (TAC NO. MC9676)

On Wednesday, January 24, 2007, members of the U.S. Nuclear Regulatory Commission (NRC) staff held public meetings at the Radisson Hotel Plymouth, Harbor Ballroom, concerning the staff's environmental review of the application submitted by Entergy Nuclear Operations, Inc. (Entergy), for renewal of Pilgrim Nuclear Power Station (Pilgrim) operating license. The purpose of the meetings were to provide the public with an opportunity to comment on the draft supplemental environmental impact statement (DSEIS) which was issued in December 2006. Formal presentations were made by the NRC staff and the EarthTech staff.

The DSEIS is a plant-specific supplement for Pilgrim to the "Generic Environmental Impact Statement for License Renewal of Nuclear Plants" (NUREG-1437). The NRC staff described the overall license renewal process, provided a description of the National Environmental Policy Act review process, and discussed the environmental requirements outlined in Title 10 of the Code of Federal Regulations Part 51 (10 CFR Part 51). The NRC staff also described the preliminary results of their analyses. The environmental impacts of continued operation were predicted to be small, with the exception of some marine aquatic resources. Due to entrainment and impingement, the continued operation of the cooling water system would have moderate impacts on the local winter flounder population, and the Jones River population of rainbow smelt, respectively. Continued operation of the cooling water system would have small to moderate impingement and entrainment impacts on other marine aquatic species as well. The impacts of alternatives (including the no-action alternative) were predicted to have impacts in at least some environmental aspects that could reach moderate or large significance.

After the formal presentations were given by the NRC staff, members of the public were invited to provide comments. Approximately 150 people attended the two sessions including members of the public, Entergy, local citizen organizations, and local news media.

In an effort to improve communication and increase interaction with members of the public, the NRC staff conducted open houses for one hour before each meeting and encouraged the public to submit meeting feedback forms. The staff provided displays and brochures and met with members of the public to answer questions about the proposed renewal of the Pilgrim operating license.

A combined listing of attendees for both public meetings is provided in Enclosure 1. Enclosure 2 is a copy of the meeting handouts provided during the public meeting open house. The official corrected transcripts for the afternoon and evening meetings, are publicly available at the NRC Public Document Room (PDR), located at One White Flint North, 11555 Rockville Pike, Rockville, Maryland, 20852, or from the NRC's Agencywide Documents Access and Management System (ADAMS).

The ADAMS Public Electronic Reading Room is accessible at http://adamswebsearch.nrc.gov/dologin.html. The transcripts for the afternoon and evening meetings are listed under Accession Nos. ML070530189 and ML070530185, respectively. A copy of the slides used during the NRC's presentation is also available in ADAMS under Accession No. ML070330562. Persons who do not have access to ADAMS, or who encounter problems in accessing the documents located in ADAMS, should contact the NRC's PDR reference staff by telephone at 1-800-397-4209, or 301-415-4737, or by e-mail at pdr@nrc.gov.

The closing date to accept comments on the Pilgrim DSEIS was February 28, 2007. The NRC staff will consider all comments on the Pilgrim DSEIS and make any necessary revisions to the document prior to issuing its final supplemental environmental impact statement, scheduled for July 2007.

Alicia Williamson, Environmental Project Manager
Environmental Branch B
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Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosures:
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Diane Screnci	NRC
Lisa Gibney	NRC
Robert Palla	NRC
Perry Buckberg	NRC
William Raymond	NRC
Richard Conte	NRC
Anne Ford	NRC
Bobbie Hurley	EarthTech
Steve Duda	EarthTech
Bob Ruddock	Associated Industries of Massachusetts
Arthur Gast	Plymouth Nuclear Matters Committee
Joyce McMahon	Massachusetts Affordable Reliable Energy Alliance
John Stobierski	South Shore Chamber of Commerce
Ben Mason	Llennoco Inc.
Heidi Mayo	PilgrimWatch
Pine DuBois	Jones River Watershed Association
Mary Lampert	PilgrimWatch
Rebecca Chin	Duxbury Nuclear Advisory Committee
Lilias Cingolani	Local Citizen
Malcolm MacNaught	Local Citizen
Marie Fehlow	Local Citizen
Bob Knox	Boston Globe
Eric Dykeman	South Shore Chamber of Commerce
Sheila Hollis	Representative of the Town of Plymouth
Mark Sylvia	Town of Plymouth
Max Bowen	Old Colony Memorial
Kelly Connerton	Local Citizen
Paul Smith	Plymouth Nuclear Matters Committee
Lauren Demarco	DHS
Jolette Westbrook	MA Dept. Telecomm. And Energy - Siting Division
Linda Benezra	Plymouth, LWV
Tom Walsh	Carver Emergency Management
Bob Walker	MA Department of Public Health
Jane Montanari	Plymouth, LWV
Marion Galvin	Local Citizen

LIST OF PARTICIPANTS FROM THE PILGRIM DRAFT ENVIRONMENTAL IMPACT STATEMENT MEETINGS Continued

JANUARY 24, 2007

PARTICIPANTS	AFFILIATION
Tim Timmerman	US Environmental Protection Agency - Region One
Stephanie Vosk	Cape Cod Times
Deputy Chief William Carrier	Duxbury Fire Department
John Giarrusso	Mass Emergency Management Agency
Moray MachLachlan	Duxbury Clipper
Millie Morrison	Duxbury Nuclear Matters Committee
Charles Vavtrain	Local Citizen
Paul O'Connor	Local Citizen
Deirdre Lang	WQRC
Diane Webke	Journalist
Bob Haynes	Massachusetts AFL-CIO
Gary Sullivan	Utility Worker Union
Kevin Craig	Duxbury Nuclear Matters Committee
Bill Harris	Local Citizen
Brian Thurber	Clean Water Action
Bill Stone	Local Citizen
Richard Rothstein	Plymouth Nuclear Matters Committee
Michael Scherer	Normandeau Associates
Carol Wightman	Entergy Nuclear Operations, Inc. (Entergy)
Rick Buckley	Entergy
Fred Mogolesko	Entergy
Jacob Scheffer	Entergy
Joseph Egan	Entergy
Jack Alexander	Entergy
Paul McCormack	
Anne Gebber	
Chuck Callar	

AGENDA FOR PUBLIC MEETING TO DISCUSS THE DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT FOR THE LICENSE RENEWAL OF PILGRIM NUCLEAR POWER STATION

WEDNESDAY, JANUARY 24, 2007

Two Meeting Sessions - 1:30 p.m. to 4:30 p.m. and 7:00 p.m. to 10:00 p.m.*

I.	Welcome and Purpose of Meeting	10 minutes (C. Cameron)
II.	Overview of License Renewal Process	10 minutes (A. Williamson)
III.	Results of the Environmental Review	20 minutes (R. Hurley)
IV.	How Comments can be Submitted	5 minutes (A. Williamson)
V.	Public Comments	As Required (C. Cameron)
VI.	Closing/Availability of Transcripts, etc.	5 minutes (R. Franovich)

*The NRC staff will host informal discussions one hour prior to each meeting session. No formal comments on the Draft Supplemental Environmental Impact Statement (DSEIS) will be accepted during the informal discussions. To be considered, comments must be provided either at the transcribed public meetings (see agenda, above) or in writing, as described in the attached Federal Register Notice.

Enclosure 2

Welcome to the NRC's Open House Associated with the Environmental Review for the proposed License Renewal of Pilgrim Nuclear Power Station

This open house is intended to provide an opportunity for interested members of the public and staff from other Federal, State, and local agencies to interact with the NRC staff in an informal information exchange.

The NRC is gathering information necessary to prepare a Supplemental Environmental Impact Statement (SEIS) to the Generic Environmental Impact Statement (GEIS) for License Renewal of Nuclear Plants, regarding the proposed renewal of the operating license for Pilgrim Nuclear Power Station. Please note that if you wish to provide formal comments regarding the draft Supplemental Environmental Impact Statement (DSEIS) to the GEIS, they must be presented at today's transcribed public meeting, or provided in writing or by e-mail by February 28, 2007. Comments received after this date will be considered if it is practicable to do so, but the NRC staff is able to assure consideration only for comments received on or before this date.

Written comments on the DSEIS should be sent to:

Chief, Rules and Directives Branch
Division of Administrative Services
Office of Administration
Mailstop T-6D 59
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Comments may be hand-delivered to the NRC at 11545 Rockville Pike, Rockville, Maryland, between 7:45 a.m. and 4:15 p.m. on Federal workdays. Submittal of electronic comments may be sent by e-mail to the NRC at *PilgrimEIS@nrc.gov*.

Thank you for your participation.

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 1, 2007

Mr. Michael Kansler
President
Entergy Nuclear Operations, Inc.
440 Hamilton Avenue
White Plains, NY 10601-1839

SUBJECT: SAFETY EVALUATION REPORT WITH OPEN ITEMS RELATED TO THE LICENSE RENEWAL OF PILGRIM NUCLEAR POWER STATION

Dear Mr. Kansler:

By letter dated January 25, 2006, Entergy Nuclear Operations, Inc., (Entergy), submitted, for the U.S. Nuclear Regulatory Commission (NRC) review, an application to renew the Pilgrim Nuclear Power Station (PNPS), operating license for up to an additional 20 years. The license renewal application (LRA) was submitted pursuant to Title 10 of the *Code of Federal Regulations* Part 54, "Requirements for Renewal of Operating Licenses for Nuclear Power Plants." The staff determined that the LRA was complete and acceptable for docketing on March 21, 2006.

The staff has reviewed the PNPS LRA and has developed the enclosed "Safety Evaluation Report With Open Items Related to the License Renewal of the Pilgrim Nuclear Power Station," hereinafter referred to as the Safety Evaluation Report (SER). This SER reflects the status of the staff's review of the LRA, requests for additional information (RAIs), the applicant's responses to the staff's RAIs and other questions related to the LRA through February 23, 2007, unless otherwise noted. Issuance of the enclosed SER is an important milestone for both the applicant and the staff.

The staff has identified open items in its review, that must be resolved before it can make a final determination on the application. SER Section 1.5 includes a listing of the open items with an explanation of the information required to satisfactorily resolve the issues. In order to resolve these items, the staff has requested additional information, as identified in the SER.

In accordance with the schedule for completing the review of the PNPS LRA, the applicant is requested to review the enclosed SER, verify its accuracy, and provide comments to the staff by April 1, 2007. The staff plans to review the current content and format of the SER for further improvement while incorporating the applicant's comments. A revised SER will then be issued.

The staff is committed to completing the review of the PNPS SER in a timely manner. If you have any questions regarding this matter, please contact the license renewal project manager, Perry Buckberg, at 301-415-1383 or e-mail PHB1@nrc.gov.

Sincerely,

Pao-Tsin Kuo, Director
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
Safety Evaluation Report with
Open Items

cc w/encls: See next page

cc:

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 15, 2007

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Pilgrim Nuclear Power Station

SUBJECT: SUMMARY OF CONFERENCE CALL ON FEBRUARY 26, 2007, WITH ENTERGY NUCLEAR OPERATIONS, INC., REGARDING THE PILGRIM LICENSE RENEWAL APPLICATION (TAC NO. MC9669)

The U.S. Nuclear Regulatory Commission (NRC) staff conducted a conference call with Entergy Nuclear Operations, Inc., (Entergy or the applicant) regarding the Pilgrim license renewal application (LRA) to discuss neutron fluence. The conference call was conducted on Monday, February 26, 2007, between 3:00 p.m. and 4:00 p.m. at 11555 Rockville Pike, Rockville, MD 20852. The list of participants is shown in the enclosure. The following is a summary of the conference call.

The NRC Pilgrim Project Manager provided a brief introduction and then discussions regarding neutron fluence began. The staff described to the applicant information that may soon be requested from the applicant in a Request for Additional Information (RAI). The RAI pertains to the applicant's neutron embrittlement time-limited aging analyses (TLAAs) and an Aging Management Plan.

The applicant had an opportunity to comment on the meeting summary.

Perry Buckberg, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
List of Participants

cc w/encl: See next page

LIST OF PARTICIPANTS FOR TELEPHONE CONFERENCE CALL TO DISCUSS THE PILGRIM NUCLEAR POWER STATION LICENSE RENEWAL APPLICATION

February 26 , 2007

PARTICIPANTS	AFFILIATION
Perry Buckberg	U.S. Nuclear Regulatory Commission (NRC)
Louise Lund	NRC
Matthew Mitchell	NRC
Lambros Lois	NRC
Steve Bethay	Entergy Nuclear Operations, Inc. (Entergy)
Bryan Ford	Entergy
Ray Pace	Entergy

ENCLOSURE

cc:

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Ms. Mary Lampert
Duxbury Nuclear Advisory, Chair
Pilgrim Watch, Director
148 Washington Street
Duxbury, MA 02332

Note to Entergy Nuclear Operations, Inc., from P. Buckberg Dated March 15, 2007

SUBJECT: SUMMARY OF CONFERENCE CALL ON FEBRUARY 26, 2007, WITH ENTERGY NUCLEAR OPERATIONS, INC., REGARDING THE PILGRIM LICENSE RENEWAL APPLICATION (TAC NO. MC9669)

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 26, 2007

Mr. Michael Kansler
President
Entergy Nuclear Operations, Inc.,
440 Hamilton Avenue
White Plains, NY 10601-1839

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE PILGRIM NUCLEAR POWER STATION LICENSE RENEWAL APPLICATION

Dear Mr. Kansler:

By letter dated January 25, 2006, Entergy Nuclear Operations, Inc. submitted an application pursuant to 10 CFR Part 54, to renew the operating license for Pilgrim Nuclear Power Station for review by the U.S. Nuclear Regulatory Commission (NRC). The NRC staff is reviewing the information contained in the license renewal application (LRA) and has identified, in the enclosure, an area where additional information is needed to complete the review. This request for additional information primarily addresses LRA Section 4.2 - Reactor Vessel Neutron Embrittlement. This RAI also relates to Section 3.0.3.2.15 - Reactor Vessel Surveillance Program, and Section 4.7.1 - Reflood Thermal Shock of the Reactor Vessel Internals.

This issue was discussed with a member of your staff, Bryan Ford, and a mutually agreeable date for this response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-1383 or e-mail phb1@nrc.gov.

Sincerely,

Perry Buckberg, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
Request for Additional Information

cc w/encls:
See next page

Pilgrim Nuclear Power Station

cc:

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Senior Resident Inspector
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PILGRIM NUCLEAR POWER STATION
LICENSE RENEWAL APPLICATION (LRA)
REQUEST FOR ADDITIONAL INFORMATION (RAI)

RAI# 4.2

1. Fluence was calculated for the Pilgrim reactor vessel (RV) for the extended 60-year licensed operating period (54 effective full power years (EFPY) of facility operation), using the Radiation Analysis Modeling Application (RAMA) fluence methodology. The RAMA fluence methodology was previously approved by the NRC staff, and the results are acceptable for licensing actions provided that: (1) the RAMA application follows the guidance in Regulatory Guide 1.190 and (2) RV fluence calculations have at least one credible plant-specific surveillance capsule for benchmarking.

   The applicant provided 54 EFPY fluence values for the Pilgrim RV beltline materials in Section 4.2.1 of the License Renewal Application (LRA). These fluence values were used throughout Section 4.2 of the LRA for the RV neutron embrittlement time limited aging analyses (TLAAs). However, due to the lack of a credible plant-specific benchmark, the staff finds the 54 EFPY fluence values provided in LRA Section 4.2.1 unacceptable for use in the RV neutron embrittlement TLAAs. Therefore, the staff requests that the applicant revise Section 4.2.1 of the LRA to provide an acceptable neutron fluence evaluation or an alternative proposal for closing this TLAA topic in the LRA review.

2. Due to the lack of benchmarking data in support of the plant-specific RAMA fluence calculations, the staff cannot complete its review of the TLAAs in LRA Sections 4.2.2, 4.2.3, 4.2.4, 4.2.5, 4.2.6 and 4.7.1, as well as the aging management program (AMP) on the RV material surveillance program, using the current fluence values for the Pilgrim RV that were provided in LRA Section 4.2.1. Therefore, the staff requests that the applicant revise LRA Sections 4.2.2, 4.2.3, 4.2.4, 4.2.5, 4.2.6, 4.7.1, and the AMP on the RV material surveillance program to provide an acceptable evaluation of these topics or an alternative proposal for closing these topics in the LRA review.

Letter to M. Kansler from P. Buckberg dated March 26, 2007

DISTRIBUTION:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE PILGRIM NUCLEAR POWER STATION LICENSE RENEWAL APPLICATION

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

April 27, 2007

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Pilgrim Nuclear Power Station

SUBJECT: SUMMARY OF CONFERENCE CALLS ON APRIL 2, 2007, WITH ENTERGY NUCLEAR OPERATIONS, INC., REGARDING THE PILGRIM LICENSE RENEWAL APPLICATION (TAC NO. MC9669)

The U.S. Nuclear Regulatory Commission (NRC) staff conducted a series of conference calls with Entergy Nuclear Operations, Inc., (Entergy) regarding the Pilgrim license renewal application (LRA) to discuss Pilgrim Safety Evaluation Report (SER) Open Item (OI) 3.0.3.3.2. The conference calls were conducted on Monday, April 2, 2007, between 10:30 a.m. and 3:30 p.m. at 11555 Rockville Pike, Rockville, MD 20852. The list of participants is shown in the enclosure. The following is a summary of the conference calls.

The NRC Pilgrim Project Manager provided a brief introduction and then the staff was able to discuss with Entergy remaining questions regarding the possibility of refueling pool water leaking onto the reactor drywell shell. The staff and Entergy also discussed the need for commitments to evaluate torus anchor bolts and grout, and the need to confirm the 50 and 100 year flood plans do not impact the torus and surrounding equipment. Entergy described the inspections performed during outages that ensure any water leakage is documented. Entergy stated that no leakage has ever been documented. Entergy also discussed the welded construction of the refueling bellows. Entergy agreed that commitments should be made consistent with their recent Torus Base Mat Performance Evaluation recommendations and that they will confirm the flood plan impact on the plant.

The applicant had an opportunity to comment on the meeting summary.

Perry Buckberg, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
List of Participants

cc w/encl: See next page

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LIST OF PARTICIPANTS FOR TELEPHONE CONFERENCE CALL TO DISCUSS THE PILGRIM NUCLEAR POWER STATION LICENSE RENEWAL APPLICATION

April2, 2007

PARTICIPANTS	AFFILIATION
Perry Buckberg	U.S. Nuclear Regulatory Commission (NRC)
Robert Schaaf	NRC
Dan Hoang	NRC
Ken Chang	NRC
Peter Wen	NRC
Richard Conte	NRC
Glenn Meyer	NRC
Tim O'Hara	NRC
Bryan Ford	Entergy Nuclear Operations, Inc. (Entergy)

ENCLOSURE

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

May 1, 2007

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Pilgrim Nuclear Power Station

SUBJECT: SUMMARY OF CONFERENCE CALLS ON MARCH 14, 2007, AND MARCH 15, 2007, WITH ENTERGY NUCLEAR OPERATIONS, INC., REGARDING THE PILGRIM LICENSE RENEWAL APPLICATION (TAC NO. MC9669)

The U.S. Nuclear Regulatory Commission (NRC) staff conducted a series of conference calls with Entergy Nuclear Operations, Inc., (Entergy) regarding the Pilgrim license renewal application (LRA) to discuss Pilgrim Request for Additional Information (RAI) B.1.16.1 and to discuss neutron fluence. The conference calls were conducted on Wednesday, March 14, 2007, between 2:00 p.m. and 3:00 p.m. and Thursday, March 15, 2007, between 1:30 p.m. and 2:00 p.m. at 11555 Rockville Pike, Rockville, MD 20852. The list of participants is shown in the enclosure. The following is a summary of the conference call.

During the March 14 call, the Director of the Division of License Renewal discussed the staff concern with the lack of detail offered by Entergy in Pilgrim License Renewal Application Amendment 15 of March 13, 2007 as it relates to groundwater in the torus room. During the March 15 call, Entergy discussed a method being considered to resolve Pilgrim Safety Evaluation Report Open Item 4.2. This discussion was a follow up to the conference call that took place on February 26, 2007. The staff will issue a formal Request for Additional Information related to Open Item 4.2.

The applicant had an opportunity to comment on the meeting summary.

Perry Buckberg, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
List of Participants

cc w/encl: See next page

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LIST OF PARTICIPANTS FOR TELEPHONE CONFERENCE CALL TO DISCUSS THE PILGRIM NUCLEAR POWER STATION LICENSE RENEWAL APPLICATION

March 14 and March 15, 2007

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Perry Buckberg	NRC
James Davis	NRC
Dan Hoang	NRC
Matthew Mitchell	NRC
Chistopher Sydnor	NRC
Bryan Ford	Entergy Nuclear Operations, Inc. (Entergy)
Ray Pace	Entergy
Ed Sanchez	Entergy
George Millrus	Entergy

ENCLOSURE

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 8, 2007

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Pilgrim Nuclear Power Station

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON MAY 10, 2007, BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND ENTERGY NUCLEAR OPERATIONS, INC., CONCERNING OPEN ITEMS PERTAINING TO THE PILGRIM NUCLEAR POWER STATION, LICENSE RENEWAL SAFETY EVALUATION REPORT

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of Entergy Nuclear Operations, Inc., held a telephone conference call on May 10, 2007, to discuss and clarify the staff's open items (OIs) concerning the Pilgrim Nuclear Power Station, safety evaluation report.

Enclosure 1 provides a listing of the participants and Enclosure 2 contains a listing of the OIs and issues discussed with the applicant, including a brief description on the status of the items.

The applicant had an opportunity to comment on this summary.

Perry Buckberg, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosures:
1. List of Participants
2. List of Open Items

cc w/encls: See next page

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TELEPHONE CONFERENCE CALL
PILGRIM NUCLEAR POWER STATION
LICENSE RENEWAL APPLICATION

LIST OF PARTICIPANTS
MAY 10, 2007

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Ganesh Cheruveki	NRC
Lambros Lois	NRC
James Medoff	NRC
Bryan Ford	Entergy Nuclear Operations, Inc. (Entergy)
Fred Mogolesko	Entergy
Alan Cox	Entergy
Tim Griesbach	Structural Integrity Associates

Enclosure

OPEN ITEMS
PILGRIM NUCLEAR POWER STATION
LICENSE RENEWAL SAFETY EVALUATION REPORT

MAY 10, 2007

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of Entergy Nuclear Operations, Inc., held a telephone conference call on May 10, 2007, to discuss and clarify the following open items (OIs) and an Audit Item concerning the Pilgrim Nuclear Power Station (PNPS), safety evaluation report (SER).

OI # 4.2

Discussion: Based on the discussion with the applicant, the staff indicated that the response to this OI requires amending. The applicant agreed to update the Nil Ductility Reference Temperature to calculate axial weld failure probability.

OI # 3.0.3.3.2

Discussion: Based on the discussion with the applicant, the staff indicated that the response to this OI requires amending and that the response to Audit item number 195 needs to be revisited. The applicant agreed to amend LRA commitment 45 to reflect more frequent testing of water if it continues to collect on the torus room floor and the applicant agreed to credit a different aging management program for small bore valve bodies.

Audit Item #195

Discussion: Based on the discussion with the applicant, the staff indicated that the LRA should be amended to better reflect information relevant to Audit item number 195 regarding valve bodies. The applicant agreed to credit a different aging management program for the management of reduction of fracture toughness in Class 1 small bore valve bodies made from CASS.

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 28, 2007

Mr. Michael Kansler
President
Entergy Nuclear Operations, Inc.
440 Hamilton Avenue
White Plains, NY 10601-1839

SUBJECT: SAFETY EVALUATION REPORT RELATED TO THE LICENSE RENEWAL OF PILGRIM NUCLEAR POWER STATION

Dear Mr. Kansler:

By letter dated January 25, 2006, Entergy Nuclear Operations, Inc., (Entergy) submitted, for the U.S. Nuclear Regulatory Commission (NRC) review, an application to renew the Pilgrim Nuclear Power Station (PNPS), operating license for up to an additional 20 years. The license renewal application (LRA) was submitted pursuant to Title 10 of the *Code of Federal Regulations* Part 54, "Requirements for Renewal of Operating Licenses for Nuclear Power Plants." The NRC staff determined that the LRA was complete and acceptable for docketing on March 21, 2006. Since that time, the staff has reviewed the PNPS LRA, issued requests for additional information (RAIs), reviewed the applicant's responses to the staff's RAIs, developed a draft safety evaluation report (D-SER) dated March 1, 2007, and reviewed the applicant's comments on the D-SER. On the basis of this review, the staff has developed the enclosed SER to document its findings associated with the safety review of the LRA and supporting documentation for Pilgrim Nuclear Power Station.

If you have any questions regarding this matter, please contact the license renewal project manager, Perry Buckberg at (301) 415-1383 or by e-mail PHB1@nrc.gov.

Sincerely,

Pao-Tsin Kuo, Director
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
Safety Evaluation Report

cc w/encls: See next page

cc:

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UNITED STATES
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WASHINGTON, D.C. 20555-0001

July 26, 2007

Mr. Michael Kansler
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SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE PILGRIM NUCLEAR POWER STATION, LICENSE RENEWAL APPLICATION

Dear Mr. Kansler:

By letter dated January 25, 2006, Entergy Nuclear Operations, Inc., submitted an application pursuant to 10 CFR Part 54, to renew the operating license for Pilgrim Nuclear Power Station, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff has identified, in the enclosure, areas where additional information is needed.

This issue was discussed with a member of your staff, Stephen Bethay, and a mutually agreeable date for this response is August 3, 2007. If you have any questions, please contact me at 301-415-1383 or e-mail PHB1@nrc.gov.

Sincerely,

Perry Buckberg, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
Requests for Additional Information

cc w/encl: See next page

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PILGRIM NUCLEAR POWER STATION
LICENSE RENEWAL APPLICATION
REQUESTS FOR ADDITIONAL INFORMATION (RAI)

RAI 4.3.3-1:

The license renewal application (LRA) for the Pilgrim Nuclear Power Station listed several reactor coolant pressure boundary components that did not receive a plant-specific metal fatigue analysis and cumulative usage factor (CUF). The applicant generated LRA Commitment No. 31 to address this issue. In the commitment, the applicant committed to take one of the following options or a combination of options to ensure that the time-limited aging analysis (TLAA) on environmentally-assisted fatigue (EAF) of these components, and any other Class 1 components requiring reanalysis for EAF, will be acceptable under 10 CFR 54.21(c)(1) for the period of extended operation:

Option (1): either refine the existing fatigue analyses or perform new fatigue analyses using at least one of four suboptions under this option.

Option (2): manage aging by an aging management program for the period of extended operation.

Option (3): repair or replace the impacted component prior to exceeding a CUF of 1.0.

In order to make a determination on the acceptability of the applicant's TLAA on EAF under the requirements of 10 CFR 54.21(c)(1), the staff requests that the applicant provide additional information on the option(s) that will be used for LRA Commitment No. 31. The applicant is requested to describe the methodology that will be used for the chosen option(s) in sufficient detail for staff review. Specifically, the staff requests that:

A. If Option (1) is chosen, describe the methodology and the process that will be used to ensure that assumptions, transients, cycles, external loadings, F_{en} values, and analysis methods are valid for the refined or new fatigue analyses.

   In the event the refined analyses performed under Option (1) result in CUFs greater than 1.0, describe the option(s) that may be used in addition to Option (1).

B. If Option (2) is chosen, describe the AMP in sufficient detail with regard to inspection scope, inspection methods, inspection frequency, and inspection qualification techniques.

C. If Option (3) is chosen, describe how the repair or replacement activity will be implemented in accordance with applicable repair or replacement requirements of the ASME Code Section XI.

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

July 26, 2007

U.S. Environmental Protection Agency
Office of Federal Activities
NEPA Compliance Division
EIS Filing Section
Ariel Rios Building (South Oval Lobby)
Mail Code 2252-A, Room 7241
1200 Pennsylvania Avenue, NW
Washington, DC 20460

SUBJECT: FINAL SUPPLEMENT 29 TO THE GENERIC ENVIRONMENTAL IMPACT STATEMENT FOR LICENSE RENEWAL OF NUCLEAR PLANTS REGARDING PILGRIM NUCLEAR POWER STATION (TAC NO. MC9676)

Dear Sir or Madam:

The following documents are enclosed for official filing with the U.S. Environmental Protection Agency:

1. Five copies of the final Supplement 29 to NUREG-1437, "Generic Environmental Impact Statement for License Renewal of Nuclear Plants (GEIS)," regarding the license renewal of Pilgrim Nuclear Power Station.

2. Five copies of the U.S. Nuclear Regulatory Commission's (NRC) distribution list for the final Supplement 29 to NUREG-1437.

Simultaneously with this filing, a copy of the final Supplement 29 is being mailed to interested Federal and State agencies, industry organizations, interest groups, and members of the public. A copy of this document has also been placed in the NRC's Public Document Room, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852 and in the NRC Agencywide Documents Access and Management System (ADAMS). ADAMS is located on the NRC's Web site at http://adamswebsearch.nrc.gov/dologin.htm. The accession numbers for the final Supplement 29 to the GEIS are ML071990020 Volume 1 and ML071990027 Volume 2.

The draft Supplement 29 to NUREG-1437 was forwarded to you on December 8, 2006. If further information is required, please contact Ms. Alicia Williamson, Environmental Project Manager by telephone at 301-415-1878 or by e-mail at arw1@nrc.gov.

Sincerely,

Rani L. Franovich, Branch Chief
Environmental Branch B
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosures:
As stated

cc w/o encls: See next page

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WASHINGTON, D.C. 20555-0001

July 26, 2007

Mr. Michael A. Balduzzi
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SUBJECT: NOTICE OF AVAILABILITY OF THE FINAL PLANT-SPECIFIC SUPPLEMENT 29 TO THE GENERIC ENVIRONMENTAL IMPACT STATEMENT FOR LICENSE RENEWAL OF NUCLEAR PLANTS REGARDING PILGRIM NUCLEAR POWER STATION (TAC NO. MC9676)

Dear Mr. Balduzzi:

The U.S. Nuclear Regulatory Commission (NRC) staff has completed the final plant-specific Supplement 29 to NUREG-1437, "Generic Environmental Impact Statement for License Renewal of Nuclear Plants (GEIS)," regarding the renewal of operating license DPR-35 for an additional 20 years of operation for the Pilgrim Nuclear Power Station. Enclosed is a copy of the final supplement and the associated *Federal Register* Notice of Availability. This notice advises the public that the final supplement is publicly available at the NRC Public Document Room (PDR) or from the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC website at http://adamswebsearch.nrc.gov/dologin.htm. The Accession Numbers for the final Supplement 29 to the GEIS are ML071990020 Volume 1 and ML071990027 Volume 2. In addition, the final supplement will be available at the following libraries for public inspection: the Plymouth Public Library, 132 South Street, the Duxbury Free Library, 77 Alden Street, and the Kingston Public Library, 6 Green Street.

As discussed in Section 9.3 of the final supplement, the staff recommends that the Commission determine that the adverse environmental impacts of license renewal for the Pilgrim Nuclear Power Station are not so great that preserving the option of license renewal for energy planning decision makers would be unreasonable. This recommendation is based on: (1) the analysis and findings in the GEIS; (2) the Environmental Report submitted by Entergy; (3) consultation with Federal, State, and local agencies; (4) the staff's own independent review; and (5) the staff's consideration of public comments.

A separate Notice of Availability of the final supplemental environmental impact statement will be placed in the *Federal Register* through the U.S. Environmental Protection Agency. If you have any questions regarding this matter, please contact the NRC Environmental Project Manager, Ms. Alicia Williamson, at 301-415-1878 or by e-mail at arw1@nrc.gov.

Sincerely,

Rani L. Franovich

Rani L. Franovich, Branch Chief
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Docket No. 50-293

Enclosure:
As stated

cc w/encl: See next page

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UNITED STATES NUCLEAR REGULATORY COMMISSION

ENTERGY NUCLEAR OPERATIONS, INC.

PILGRIM NUCLEAR POWER STATION

NOTICE OF AVAILABILITY OF THE FINAL SUPPLEMENT 29 TO THE GENERIC ENVIRONMENTAL IMPACT STATEMENT FOR LICENSE RENEWAL OF NUCLEAR PLANTS, REGARDING THE LICENSE RENEWAL OF PILGRIM NUCLEAR POWER STATION

DOCKET NO. 50-293

Notice is hereby given that the U.S. Nuclear Regulatory Commission (NRC, Commission) has published a final plant-specific supplement to the "Generic Environmental Impact Statement for License Renewal of Nuclear Plants (GEIS)," NUREG-1437, regarding the renewal of operating license DPR-35 for an additional 20 years of operation for the Pilgrim Nuclear Power Station (Pilgrim). Pilgrim is located on the western shore of Cape Cod in the Town of Plymouth, Plymouth County, Massachusetts. It is 38 miles southeast of Boston, Massachusetts, and 44 miles east of Providence, Rhode Island. Possible alternatives to the proposed action (license renewal) include no action and reasonable alternative energy sources.

As discussed in Section 9.3 of the final Supplement 29, the recommendation of the staff is that the Commission determine that the adverse environmental impacts of license renewal for Pilgrim are not so great that preserving the option of license renewal for energy-planning decision makers would be unreasonable. The recommendation is based on: (1) the analysis and findings in the GEIS; (2) the Environmental Report submitted by Entergy; (3) consultation with Federal, State, and local agencies; (4) the staff's own independent review; and (5) the staff's consideration of public comments.

The final Supplement 29 to the GEIS is publicly available at the NRC Public Document Room (PDR), located at One White Flint North, 11555 Rockville Pike, Rockville, Maryland, 20852, or from the NRC's Agencywide Documents Access and Management System (ADAMS). The ADAMS Public Electronic Reading Room is accessible at http://adamswebsearch.nrc.gov/dologin.htm. The Accession Numbers for the final Supplement 29 to the GEIS are ML071990020 Volume 1 and ML071990027 Volume 2. Persons who do not have access to ADAMS, or who encounter problems in accessing the documents located in ADAMS, should contact the NRC's PDR reference staff by telephone at 1-800-397-4209, or 301-415-4737, or by e-mail at pdr@nrc.gov. In addition, the final supplement will be available at the following libraries for public inspection: the Plymouth Public Library, 132 South Street, the Duxbury Free Library, 77 Alden Street, and the Kingston Public Library, 6 Green Street.

FOR FURTHER INFORMATION, CONTACT: Ms. Alicia Williamson, Environmental Branch B, Division of License Renewal, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Mail Stop O-11F1, Washington, DC 20555-0001. Ms. Williamson may be contacted by telephone at 1-800-368-5642, extension 1878 or via e-mail at arw1@nrc.gov.

Dated at Rockville, Maryland, this 26th day of July, 2007

FOR THE NUCLEAR REGULATORY COMMISSION

Rani L. Franovich

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